Uniden®

UH045XR
UHF CB 2-WAY RADIO

POCKET MAX

UHF CB 2 WAY RADIO
38 SECURITY CODES

19 CHANNELS

POCKET MAX

Uniden

IT'S WHAT'S **INSIDE** THAT **COUNTS**

SURFACE MOUNT TECHNOLOGY
SUPERIOR PERFORMANCE & RELIABILITY

OPERATING GUIDE

**Please read carefully before
operating this radio.**

Safety Information
- DO NOT operate the transmitter of any
  radio equipment near electrical blasting
  caps or in an explosive atmosphere.
- Have your radio equipment serviced by a
  Uniden Service Agent.

Using Alkaline Batteries
- Do not charge the Alkaline batteries in this
  equipment. Charging them will damage the
  UH-045XR and/or cause the battery to
  explode.

Uniden® is a registered trademark of Uniden
Corporation.
Features, Specifications and availability of
Optional Accessories are all subject to change
without notice.

THE CITIZENS BAND RADIO
COMMUNICATION SERVICE (CBRS) IS UNDER
THE JURISDICTION OF THE AUSTRALIAN
COMMUNICATION AUTHORITY (ACA).
ANY ADJUSTMENT OR ALTERATIONS WHICH
WILL CHANGE THE PERFORMANCE OF THE
UH-045XR ORIGINAL ACA TYPE ACCEPTANCE
IS STRICTLY PROHIBITED.

CONTENTS

UH045XR

Antenna

Belt Clip
& Wrist Strap
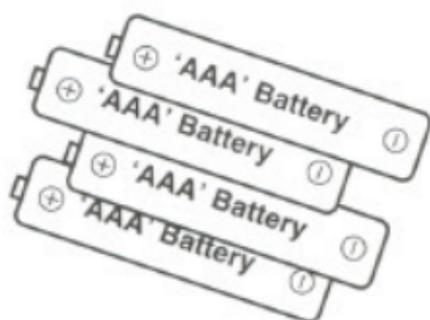
Batteries

Registration Card

Operating Manual

NOTE: If any items are missing or damaged, please contact your place of purchase immediately.

Congratulations on your purchase of the Uniden
UH045XR Pocket Max. This 19 Channel personal
2-Way Radio represents a great value in professional
portable communications. You will find that it provides
reliable, consistent performance for short distance
2-Way personal communications.

The UH045XR series are lightweight, palm sized
2-Way radios that can be used up to about 3km with
family or friends at sporting events, camping, hunting,
shopping malls or any other indoor or outdoor activity!

The UH045XR offers 19 UHF CB Channels, LCD
display, battery save mode, CTCSS (Continuous Tone
Coded Squelch System) private channel codes, acces-
sory connectors, battery recharge capability and more!
Please read this manual thoroughly before operating
your radio to receive the best performance possible.

FEATURES

- 19 Channels
- 400mW RF Power
- 38 CTCSS Code
- Speaker/Mic Jack
- Operates on rechargeable or standard AAA Batteries
- Backlit LCD Display
- Keypad Lock

> **NOTE:** Transmission range will vary depending on
> terrain and environment. Range will be
> greater in open areas, while reduced
> range will occur when operated within /
> around buildings or automobiles.
>
> The use of the CTCSS feature when
> transmitting should be limited to 3 seconds
> only. This is an ACA requirement
> (Australia only).

Flexible Antenna

TX/RX LED Indicator

UP Button

PTT (Push to TALK) Button

DOWN Button

Microphone

MODE Button

Speaker

VOL. SW/ ON/OFF Knob

LCD Display

External Mic*/External Headset* Jack

MONITOR Button

Battery Compartment (located on the rear side)

Battery Cover Latch (located on the rear side)
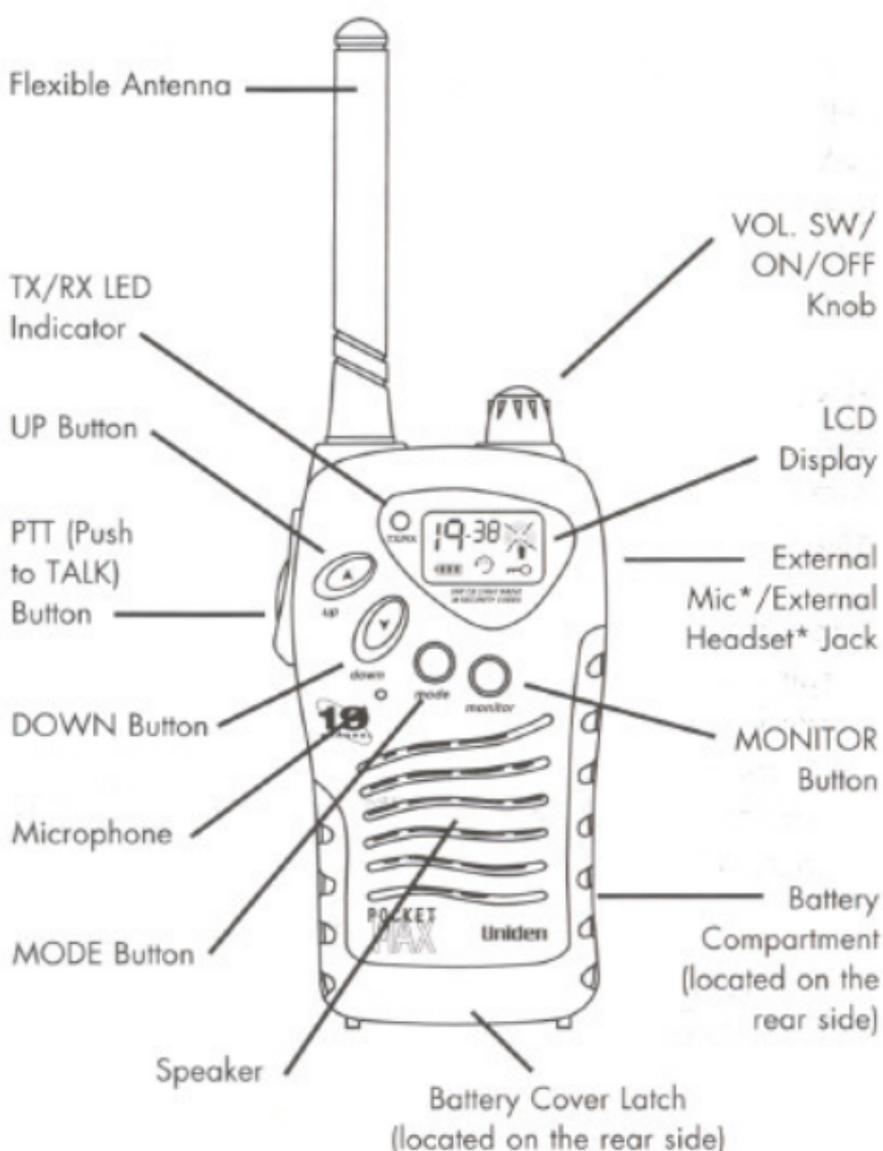
*Note: Optional speaker microphone, headset and charger are available from your local Uniden dealer.

Battery Compartment	Houses four "AAA" batteries (included).
Battery Cover Latch	Secures the battery cover in place.
Belt Clip	A belt clip is included to secure the radio to a belt or any other convenient location.
PTT (Push To Talk) button	Used for transmitting a message.
TX/RX LED	Illuminates RED when transmitting or GREEN when receiving a call.
Volume / On-Off Knob	Turn this knob clockwise to turn the unit ON and adjust the volume level. Turn fully counter-clockwise to turn OFF.

|	
MONITOR Button	Allows you to listen in on a channel for weak signals and adjust the volume level.
MODE Button	Allows you to program channels, privacy codes and other option settings.
UP (▲) and DOWN (▼) Buttons	Used for changing channels, privacy codes and option settings during programming mode.

LCD PANEL DISPLAY

Channel Number

CTCSS Code

Transmit Symbol

Receive Symbol

Battery Level/ Low Battery Indicator

Spk Mic/Headset Connection Symbol

Keylock Symbol
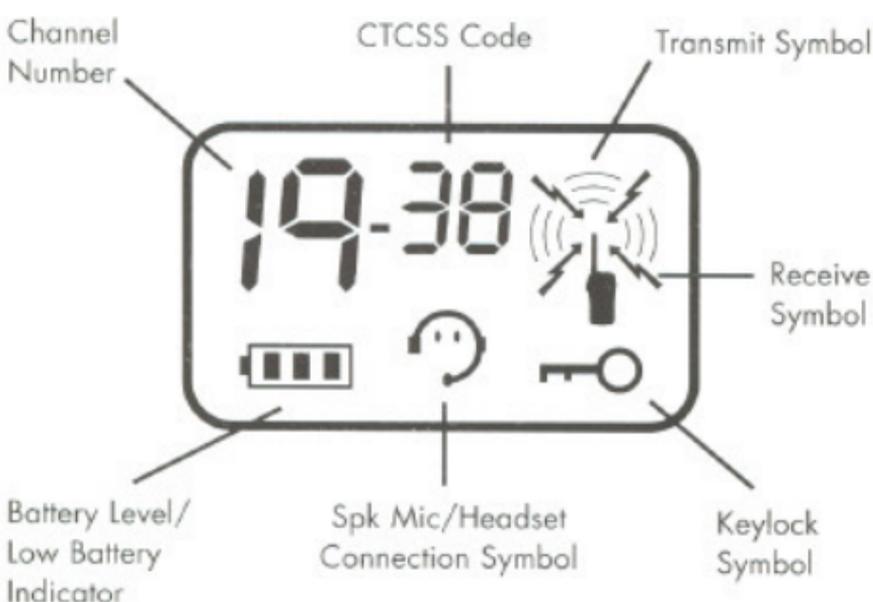
LCD Display	A multifunctional display which shows channel, privacy codes, and other radio status / icons.

NOTE: Optional speaker microphone, headset microphone and charger are available from your local Uniden dealers.

7

BATTERY INSTALLATION

1. Release the battery cover latch located on the rear of the unit. (See Figure 1).
2. Lift up the battery cover from the battery compartment.
3. Install four "AAA" type batteries following the polarities shown in Figure 2.
4. Reinstall the battery cover.
5. Lock the battery cover latch into position (See Figure 3).

(Rear View)

Battery Compartment

Battery Compartment Cover

AAA Batteries

Battery Cover Latch
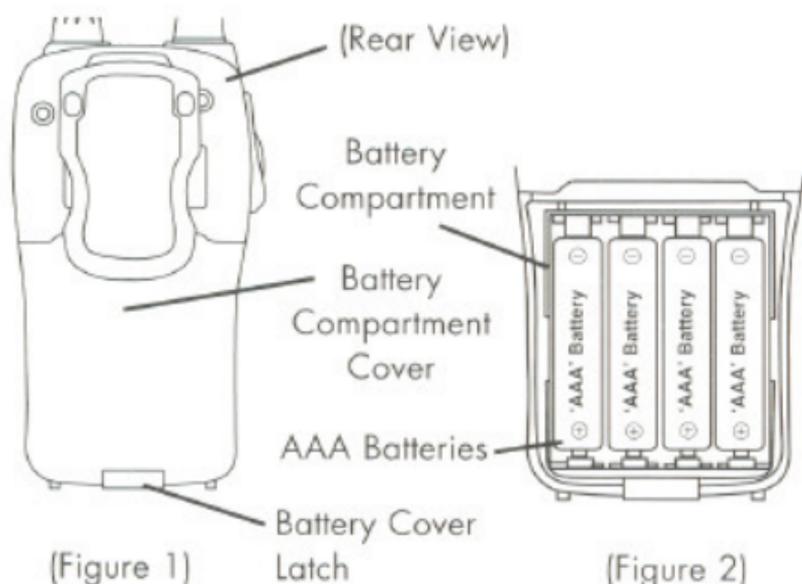
(Figure 1)

(Figure 2)

(Figure 3)

> **NOTE:**
> * Alkaline batteries will give longer usage than rechargeables.
> * Conserve battery power by turning the unit off when not in use.
> * On the UH045XR , conserve the batteries by turning ON the "Battery Save" feature. (See "Option Settings" later in this manual)
> * Remove the batteries if the unit will not be used for a number of days.

You can use rechargeable batteries on the UH045XR.

DO NOT ATTEMPT TO CHARGE ANY OTHER TYPE
OF BATTERY EXCEPT RECHARGEABLE ONES. CHARG-
ING STANDARD ALKALINE BATTERIES CAN CAUSE
EXPLOSION AND FIRE RESULTING IN
DAMAGE AND/OR INJURY.

To Charge the Batteries
1. Turn the radio OFF.
2. Insert the charger into the external Mic/Chg jack
   on the side of the radio.
3. Plug the charger into a standard 240 Volt outlet.
   The unit will be fully charged in about 10 hours.

Spkr
Mic/Chg jack
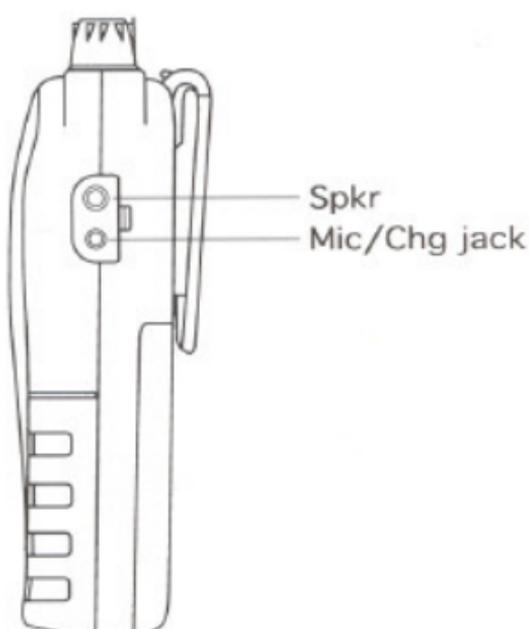
NOTE: Rechargeable batteries and charger are
not supplied in this package.

Installing / Removing the Antenna

1. To install the antenna, screw it down clockwise until
   it is hand-tight. DO NOT OVER TIGHTEN!
2. To remove, unscrew by turning counter-clockwise.

Installing the belt clip:

1. Slide the belt clip into place in the belt clip slot as shown in figure 4.
2. Ensure that the clip locks in place by listening for a "click".

Removing the belt clip:

1. Pull the belt clip latch away from the unit as shown in figure 5.
2. While pulling the latch, push up on the belt clip to remove it from the radio.

Belt Clip Latch

Belt Clip

Belt Clip Slot

(Rear View)

(Figure 4)

(Figure 5)
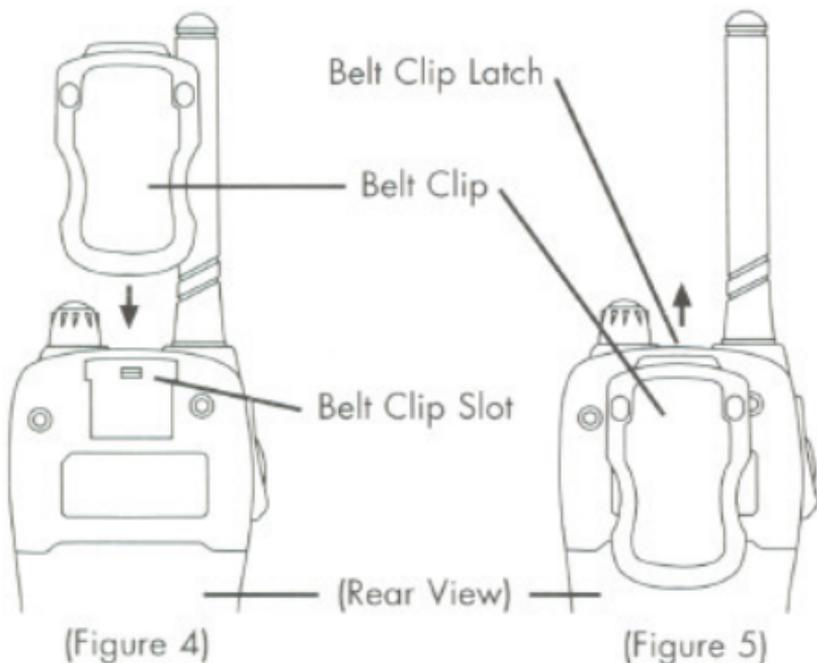
OPERATION

Turning the unit ON / OFF

- Turn the Volume Knob clockwise. The unit will "beep" and the display will appear.
- Turn the unit off by rotating the Volume knob counter-clockwise until you hear a "click".

Adjusting the volume
- Press and hold the monitor button and adjust the volume to desired level.

Receiving a call

The unit is continuously in receive mode when the unit
is turned ON. When you receive a call, the TX/RX LED
will light up green and the Receive icon will be dis-
played.

Transmitting a call

1. Push and hold the PTT button to transmit. The LED
   indicator will light up red and the TX icon will
   appear on the LCD display.
2. While pressing the PTT button, speak in a normal
   voice about 2-3 inches away from the microphone.
3. Release the PTT button when you are finished
   speaking and listen for a reply.

> **NOTE:** In order for others to receive your message
> they must be on the same channel that you
> are using. See "Changing Channels"
> for more information.

Changing Channels

The UH045XR radio uses the first 19 channels of the
UHF CB Band.

To change channels;
1. Press and hold the MODE key until a beep is heard
   and the channel number flashes on the display.
2. While the channel number is flashing,
   • Press the UP (▲) key to increase the channel
     number.
   • Press the DOWN (▼) key to decrease the
     channel number.
3. Press the MODE key twice or the PTT button to
   select the desired channel.

Privacy codes (CTCSS)

The privacy code option allows you to hear only specific users, effectively blocking out unwanted calls from other users on the same channel you are using. There are 38 CTCSS codes to choose from on each channel. To set the code:

1. Press and hold the MODE key until the LCD channel number display flashes.
2. Press the MODE key again and the Code number will begin to flash.
3. While it is flashing, press the UP (▲) or DOWN (▼) key to change the code.
4. When the desired code is reached, press either the PTT switch or the MODE key to accept.
5. To turn the Privacy option OFF, select the code number '0".

> **NOTE:**
> * When CTCSS is on, TX/RX LED will light up orange when receiving a call.
> * When the Privacy option is turned OFF, you will hear everyone that is transmitting on the channel you are currently using.
> * The Privacy option is mainly used for blocking unwanted calls over a crowed channel. Other users can still hear you, but you will not hear them unless they have the same code number that you have set.

Monitor

You can use the MONITOR feature to listen in for weak signals on the current channel or for setting the speaker volume.
* Press the MONITOR button for normal listening.
* Press and hold the MONITOR button for at least three seconds for continuous monitoring.

Key Lock

This feature prevents accidental entries. Key Lock temporarily disables the UP, DOWN and MODE keys when turned ON.
- To turn Key Lock ON, press the MODE and MONITOR keys at the same time until the Key Lock Icon appears on the display.
- Repeat the above procedure to turn OFF.

> **NOTE:** Only the PTT and MONITOR buttons will function during Key Lock mode.

Battery Level Indicator

- The LCD displays the relative battery power level according to the number of squares inside the battery symbol (3 squares = full charge).
- When the battery level is low, the icon will flash indicating that the batteries need to be changed or charged.

Sending Call Tones

You can use the call tones to alert other users or to identify yourself, using two different tones. You can also signal the beginning or ending of a transmission.
- Press and hold the PTT button.
- While holding the PTT, Press the UP (▲) or DOWN (▼) keys. You can enter multiple Call Tones.
- Release the keys. Your call tones will be transmitted.

Time Out Timer (TOT)

$$\boxed{t\text{-}00} \quad \boxed{t\text{-}01} \quad \boxed{t\text{-}20}$$
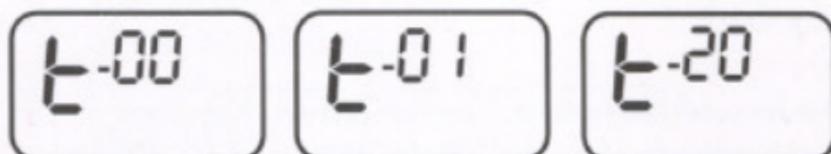
This option limits the maximum transmission time (in minutes) to conserve battery power. Factory default is set to t-0 (disabled).

1. Turn off the radio.
2. Press and hold the MODE button while turning ON the radio. The LCD will show "t-0".
3. Press the UP or DOWN keys to select the desired limit (from 1 to 20 minutes).

Busy Channel Lockout (BCL)

$$\boxed{b\text{-}oF} \quad \boxed{b\text{-}on}$$
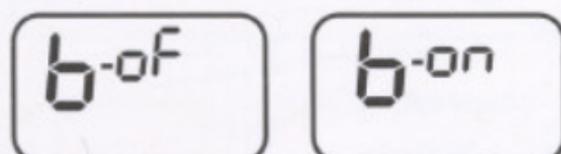
This option prevents transmission while receiving a message. Factory default is OFF.

1. Turn off the radio.
2. Press and hold the MODE button while turning ON the radio.
3. Press the MODE button again until the display reads "b-oF"
4. Press the UP or DOWN buttons to toggle between ON (on) or OFF (oF).

Power Save

$$\boxed{P\text{-}oF} \quad \boxed{P\text{-}on}$$
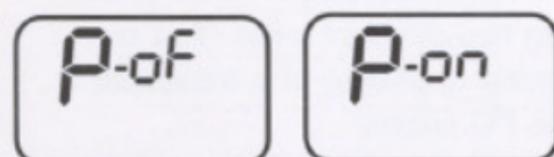
This feature conserves the battery by "powering down" the receiver momentarily when no message is being received. This will NOT cause you to miss messages! Factory default is OFF.

1. Turn the radio OFF.
2. Press and hold the MODE key while turning ON the radio.
3. Press the MODE key until the display reads "P-oF".
4. Press the UP or DOWN buttons to toggle between ON (on) or OFF (oF).

NOTE: To save the new settings simply switch off the radio.

FREQUENCY CHANNEL TABLE

CH	FREQ (MHz)	CTCSS CHANNELS
1	476.425	38
2	476.450	38
3	476.475	38
4	476.500	38
5	476.525	38
6	476.550	38
7	476.575	38
8	476.600	38
9	476.625	38
10	476.650	38
11	476.675	38
12	476.700	38
13	476.725	38
14	476.750	38
15	476.775	38
16	476.800	38
17	476.825	38
18	476.850	38
19	476.875	38

CTCSS CODE FREQ(Hz) TABLE

CODE	FREQ	CODE	FREQ
1	67.0	20	131.8
2	71.9	21	136.5
3	74.4	22	141.3
4	77.0	23	146.2
5	79.7	24	151.4
6	82.5	25	156.7
7	85.4	26	162.2
8	88.5	27	167.9
9	91.5	28	173.8
10	94.8	29	179.9
11	97.4	30	186.2
12	100	31	192.8
13	103.5	32	203.5
14	107.2	33	210.7
15	110.9	34	218.1
16	114.8	35	225.7
17	118.8	36	233.6
18	123.0	37	241.8
19	127.3	38	250.3

PROBLEM	SOLUTION
Does not turn on	• Check batteries. Ensure that the batteries are installed properly. • The batteries may be weak. Replace old batteries with four new "AAA" batteries.
Reception is weak	• Turn VOL SW/ON-OFF knob clockwise to increase volume. • The receiving signal may be weak and out of range. If this happens press the MONITOR key.
Cannot change channels	• To change channels, press and hold the MODE key first until the Channel digit flashes on the LCD panel. Then press the UP or DOWN keys to change channels.
Cannot hear other callers on a channel	• The CTCSS code feature could be active. To turn off the CTCSS, set the CTCSS code to zero (0).
Range is limited	• Batteries may be weak. Replace with new batteries if the battery level indicator is low. • The maximum range will vary depending on terrain and environment. Open fields provide the maximum range, while buildings and structures may limit the range significantly. Try moving to a different location.
Sound distortion problems	• If you are transmitting, speak in a normal tone of voice, 2 to 3 inches away from the microphone. • If you are receiving, adjust the volume to a comfortable level.

GENERAL

Frequency Control	Phase Locked Loop (PLL)
Frequency Range	476.425MHz to 476.875MHz
Number of Channels	19
Channel Spacing	25 kHz
Operating Temperature	0 C to 55 C
Power Source	6V
Size (H x D x W) in mm (without Antenna)	103 H x 33 D x 53 W
Weight (with Batteries)	165g (with Battery)
Speaker (impedance and rating)	8 ohm
Microphone	Built-in Electret type
Approval	AS/NZS4365

TRANSMITTER

Frequency Tolerance at 25C	± 500 Hz (nominal)
Frequency Stability	± 2.5PPM
Carrier Power	0.4 Watt
Spurious Emission	-30 dBm
Modulation Frequency Response (1 kHz ref.)	
500 Hz	-5 ~ -9 dB
2000 Hz	3 ~ 7 dB
Microphone Sensitivity (@ ±3 kHz Deviation)	10 mV
Signal to Noise Ratio	40 dB
Maximum Deviation	± 5 kHz
Current Drain (6V)	280 mA
Battery Life (5,5,90 Duty Cycle) on Alkaline Batteries	24 hours

RECEIVER

Sensitivity @ 12 dB SINAD	0.25 uV (nominal)
Squelch (Monitor) Sensitivity	0.17 uV (nominal)
Audio Frequency Response	± 6 dB 500 to 2000 Hz
Adjacent Channel Selectivity (± 25 kHz)	65 dB
Image Rejection (1st and 2nd IF)	60 dB
Hum and Noise	40 dB
THD at Standard Power Output	3.5%
Audio Output Power at 10% THD	200 mW
Maximum Audio Power Output	280 mW
Stand-By Current Drain (Power Save OFF)	25 mA
Stand-By Current Drain (Power Save ON)	15 mA
Current Drain at Maximum Audio	170 mA

CHARGER (OPTIONAL)

AC Adaptor	
Input	230 ~ 240V AC, 50Hz
Output	6V DC, 70 mA
Approval Number	V257

* Specifications, features and availability of optional accessories are all subject to change without prior notice.

One-Year Limited Warranty

Important:Evidence of original purchase is required for warranty service.

WARRANTOR: Uniden Australia Pty Limited
ACN 001 865 498
Uniden New Zealand Limited

ELEMENTS OF WARRANTY: Uniden warrants to the original retail owner for the duration of this warranty its UH045XR (hereinafter referred to as the Product), to be free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

WARRANTY DURATION: This warranty to the original retail owner only, shall terminate and be of no further effect 12 months after the date of original retail sale. This warranty will be deemed invalid if the product is: (A) Damaged or not maintained as reasonable and necessary, (B) Modified, altered or used as part of any conversion kits, subassemblies, or any configurations not sold by Uniden, (C) Improperly installed, (D) Repaired by someone other than an authorised Uniden Repair Agent for a defect or malfunction covered by this warranty, (E) Used in conjunction with any equipment or parts or as a part of a system not manufactured by Uniden.

PARTS COVERED: This warranty covers for one (1) year, the UH045XR radio. All accessories (antenna, belt clip and wrist strap), are covered for 90 days only.

STATEMENT OF REMEDY: In the event that the product does not conform to this warranty at any time while this warranty is in effect, the warrantor, at its discretion, will repair the defect or replace the product and return it to you without charge for parts and service.

THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. THIS GUARANTEE IS IN ADDITION TO AND DOES NOT IN ANY WAY AFFECT YOUR RIGHTS UNDER THE CONSUMER GUARANTEE ACT.

WARRANTY CARD: If a Warranty Card has been included with this Product, please complete and return to us within 14 days of purchase. Your name and the serial number of the Product will then be registered in our database and this will help us process your claim with greater speed and efficiency should you require warranty service.

PROCEDURE FOR OBTAINING PERFORMANCE OF WARRANTY: In the event that the product does not conform to this warranty, the Product should be shipped or delivered, freight pre-paid, with evidence of original purchase (e.g. a copy of the sales docket) to the warrantor at:

UNIDEN AUSTRALIA PTY LIMITED
SERVICE DIVISION
345 Princes Highway, Rockdale, NSW 2261
Ph: (02) 9599 3577   Fax: (02) 9599 3278
FREE CALL 1800 632 789
Customers in other States should ship or deliver the Product freight pre-paid to their nearest Uniden Authorised Repair Centre.(Contact Uniden for the nearest Warranty Agent to you)

UNIDEN NEW ZEALAND LIMITED
SERVICE DEPARTMENT
150 Harris Road, East Tamaki, Auckland
Ph: 0-9-273 8383   Fax: 0-9-274 0009
Toll Free: 0800   4 U N I D E N
                        4 8 6 4 3 3 6

Customers in other areas should ship or deliver the Product freight pre-paid to their nearest Uniden Authorised Repair Centre. (Contact Uniden for the nearest Warranty Agent to you)

Uniden®

Communication With Vision